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ANSWER 6 OF 15 CA COPYRIGHT 2006 ACS on STN
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AΝ
     131:311748 CA
ED
     Entered STN: 26 Nov 1999
     Fireproofing and sound-absorbing coating composition containing light
ΤI
     aggregate, cement and accelerator, and construction method
     thereof
     Ding, Shangyu
IN
     Samson Co., Ltd., S. Korea; Samson Pearl Co., Ltd.
PA
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 29 pp.
SO
     CODEN: CNXXEV
DT
     Patent
     Chinese
LA
IC
     ICM C09D001-06
     ICS C09D005-18; C09D005-32
     42-10 (Coatings, Inks, and Related Products)
CC
     Section cross-reference(s): 38, 40, 58
FAN.CNT 1
                     KIND
                                          APPLICATION NO. DATE
                               DATE
     PATENT NO.
     _____
                               _____
                                           CN 1996-100272
                        Α
                                                                  19960520
     CN 1137051
                               19961204
CN 1076035 B

KR 144583 B1

PRAI KR 1995-12658 A

KR 1995-23655 A

CLASS
                               20011212
                                         KR 1996-13392 19960429
                               19980715
                               19950520
                               19950801
             CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
 ______
 CN 1137051
               ICM _ C09D001-06
                ICS
                       C09D005-18; C09D005-32
                       C09D0001-06 [ICM,6]; C09D0005-18 [ICS,6]; C09D0005-32
                       [ICS, 6]
 KR 144583
               IPCI
                       C04B0041-45 [ICM, 7]
     The coating composition consists of light aggregate 35-60, cement
AB
     binder 25-60, and accelerating agent 4-20%. The accelerating agent is
     selected from silicates (sodium silicate, lithium silicate, calcium
     silicate, and ammonium silicate), phosphates (phosphoric acid, phosphate,
     pyrophosphate, trimethylphosphate, poly(Me phosphate)), aluminates
     (potassium aluminate, calcium aluminate, sodium aluminate, calcium
     thioaluminate and calcinated aluminite). The lightwt. aggregate is
     selected from natural inorg. mineral substance such as swelling or no
     swelling pearl, light stone, volcanic ash or float stone, hollow sphere
     glass and mineral substance with micropore, fiber such as rockwool, glass
     fiber, and inorg. fiber. The binder is selected from portland
     cement, blast furnance cement, alumina cement
     and magnesia cement. The sound-absorbing fiber is selected from
     paper, cotton yarn, polyethylene fiber, polystyrene
     fiber, and polypropylene fiber. The heat-absorbing material may
     be included and is selected from Ca(OH)2 and Al(OH)3. The surfactant may
     be included and is selected from methylcellulose, poly(vinyl_alc.),
     poly(vinyl acetate), and poly(ethylene oxide). The construction method
     comprises: (1) adding water in the composition (except accelerating agent) to
     prepare slurry, (2) spray-mixing the slurry with liquid accelerating
     agent at the spray nozzle, (3) spraying the mixed
     slurry on adhesive surface immediately. Thus, a coating composition comprising
     rockwool 55, portland cement 45, sodium silicate 11 kg and water
     spray-mixed and coated on H-shaped steel surface showed thickness
     57.2 mm and d. 379 kg/m3.
     coating compn fireproof sound absorbing; aggregate micropore mineral
ST
     hollow sphere fiber; accelerator silicate phosphate aluminate fireproof
               - Cement (non-New train)
                                                         - aggregate
"Sprayable"
              - Ca alvoninate (non - Newtonian)
- polyethylene fibers / polystypene fibers
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- polyving alahl 1 cellulare - viscority modifiers